

Middlesex University Research Repository

An open access repository of

Middlesex University research

<http://eprints.mdx.ac.uk>

Muchie, Mammo and Baskaran, Angathevar, eds. (2013) Creating systems of innovation in Africa: country case studies. Africa Institute of South Africa (AISA), TUT and Aalborg University, Pretoria, South Africa. ISBN 9780798303477. [Book]

This version is available at: <https://eprints.mdx.ac.uk/10849/>

Copyright:

Middlesex University Research Repository makes the University's research available electronically.

Copyright and moral rights to this work are retained by the author and/or other copyright owners unless otherwise stated. The work is supplied on the understanding that any use for commercial gain is strictly forbidden. A copy may be downloaded for personal, non-commercial, research or study without prior permission and without charge.

Works, including theses and research projects, may not be reproduced in any format or medium, or extensive quotations taken from them, or their content changed in any way, without first obtaining permission in writing from the copyright holder(s). They may not be sold or exploited commercially in any format or medium without the prior written permission of the copyright holder(s).

Full bibliographic details must be given when referring to, or quoting from full items including the author's name, the title of the work, publication details where relevant (place, publisher, date), pagination, and for theses or dissertations the awarding institution, the degree type awarded, and the date of the award.

If you believe that any material held in the repository infringes copyright law, please contact the Repository Team at Middlesex University via the following email address:

eprints@mdx.ac.uk

The item will be removed from the repository while any claim is being investigated.

See also repository copyright: re-use policy: <http://eprints.mdx.ac.uk/policies.html#copy>

1 Embassy House
Cnr Bailey and Edmond Street
Arcadia, Pretoria

PO Box 630, Pretoria
0001 South Africa

Tel: +27 12 304 9700 (Switchboard)
Fax: +27 12 323 8153

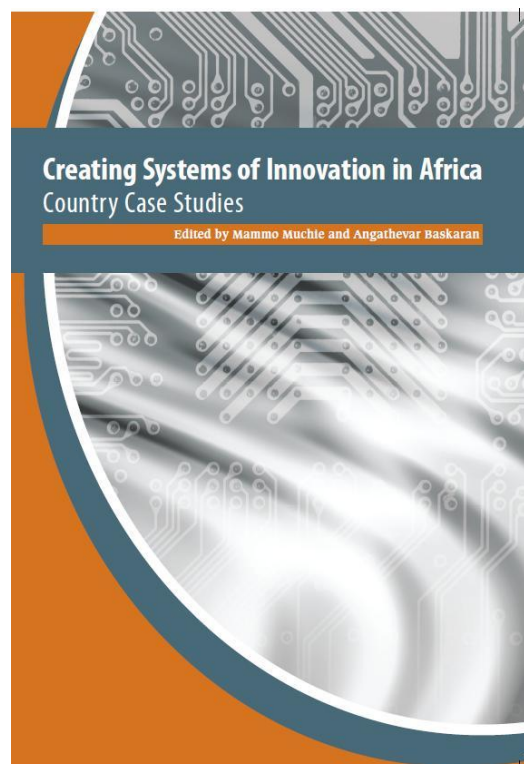


New Book Notification

CREATING SYSTEMS OF INNOVATION IN AFRICA Country Case Studies

Editors: Mammo Muchie and Angathevar Baskaran
ISBN: 978-0-7983-0347-7
Size: 245x170mm
Extent: 234 Pages
Price: R150.00
Availability: January 2013
Co-Published by AISA, TUT and AALBORG UNIVERSITY

The most popularised concept in the economics of innovation literature has been the national system of innovation (NSI). It was in the late 1980s that the concept that Frederik List coined as the 'National Political Economy of Production' took off again with different thinkers writing about the peculiarities and distinctions of the Japanese, American, British, German, East Asian Tigers and other varieties of system construction. Freeman defines National System of Innovation as 'the network of institutions in the public and private sectors whose activities and interactions initiate, import, modify and diff use new technologies.' Richard Nelson defines it as 'a set of institutions whose interactions determine the innovative performance of national firms. Lundvall defines the system of innovation as the 'elements and relationships which interact in the production, diffusion and use of new and economically useful knowledge and are either located within or rooted inside the borders of a nation state.' The normative



Council

Dr. B. Hlatshwayo (**Chairperson**), Prof. N. B. Biekpe, Dr. J. Daniel, Dr. K. S. Kongwa, Dr. T. Sidzumo-Mazibuko, Prof. Y. Sadie, Prof. N. Bohler-Muller
Mrs. S. Padayachy, Dr. N. Ramdhani, Mr. M. Nkoli, Dr. T. Auf der Heyde, Dr. M. P. Matlou (**Ex-officio**)

www.ai.org.za

assumption is that those nations that succeeded in building economic strength relied on the science, engineering, technology and innovation capability that made them to achieve an innovation advantage to put them ahead in the world, acquiring national or regional economic leadership as the case may be depending on what level of analyses is selected to look at particular failure, success or progress they made.

CONTENTS

Preface

Contributing authors

Introduction

Mammo Muchie and Agathevar Baskaran

Chapter 1

Research Typology and Knowledge Needs for Development in Africa

Robert Joumard and Ménouèr Boughedaoui

Introduction

Different types of research

The knowledge economy

Research system and its connection with development

Producing knowledge locally

Programme to strengthen research developing capabilities in Africa

Conclusion

Notes and references



Chapter 2

Ghana's Innovation System: What's wrong with it, and why?

Jo Lorentzen

Introduction

Context

Methodology and data

National innovation system in Ghana

Conclusions and recommendations

Notes and references

Chapter 3

Labour Productivity, Exports and Skills Formation: Comparing Foreign and Local Firms in Kenyan Manufacturing

Geoffrey Gachino

Introduction

Comparing foreign and local firms

Data and methodological approach

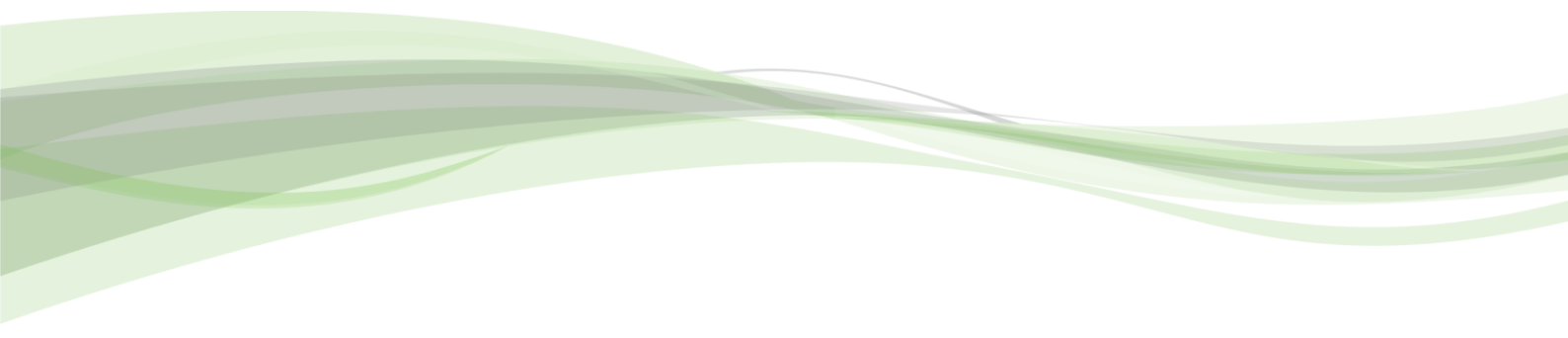
Determinants of labour productivity

Determinants of exports

Determinants of skilled labour

Conclusions

Notes and references



Chapter 4

Innovative Approaches to Industrial Utilisation of Cassava in a Developing Economy

Abolaji D. Dada, Godwin A. Ali, Oladele O. Afolabi, and Williams O. Siyanbola

Introduction

Science and technology in agriculture

Cassava production in Nigeria: the trend

Cassava processing and marketing opportunities

Constraints facing the cassava sub-sector in Nigeria

Conclusions and policy recommendations

References

Chapter 5

Enhancing Innovation in Developing Country Systems: A Synthesis of Case Studies and Lessons from Uganda

Kiggundu Rose

Introduction

Theoretical background and analytical framework

Case studies

Comparative overview, concluding observations and policy inferences

Notes and references


Chapter 6

Innovation Financing, Industrial production and the Growth of Nigeria's Non-oil Exports

Emmanuel Sebastian Akpan, Hodo Bassey Riman, and Helen Walter Mboto

Introduction

Theoretical background and review of literature



Cross-country innovation strategy and technology acquisition

Methodology

Presentation of empirical result

Conclusions and policy recommendations

References

Chapter 7

A Firm-Level Analysis of Technological Externality of Foreign Direct Investment in South Africa

Abdelrasaq Al-Suyuti Na-Allah and Mammo Muchie

Introduction

Skill constraints, agglomeration economies and technological externality of fdi debate

Main hypotheses

Model specification, data and variable construction

Results

Conclusions

Notes and references

Chapter 8

A Consensual Approach to Domain-Partitioning of a Cancer Data Sample Space: Lessons from Tanzania

Kassim S. Mwitondi and Khamza K. Maunda

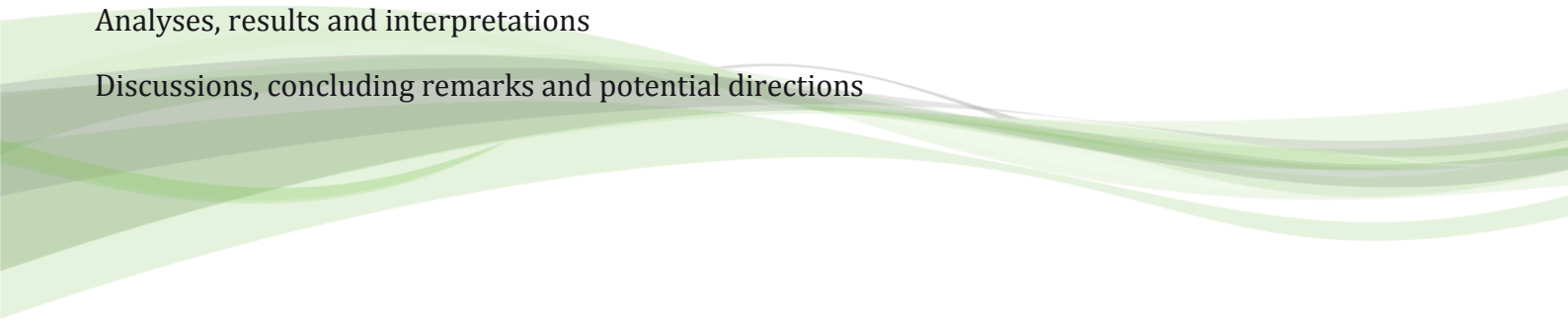
Introduction

Literature review

Research methodology

Analyses, results and interpretations

Discussions, concluding remarks and potential directions



References

Chapter 9

Remote Sensing and Geological Investigation of Okemesi Area, Southwestern Nigeria

Olusiji Samuel Ayodele

Introduction

Regional geologic setting

Local geology of the study area

Method of study

Results and discussion

Conclusions

References

Conclusion

To Order Contact

Africa Institute of South Africa

P.O. Box 630

Pretoria

0001

Tel: +12 304 9700

Fax: +12 323 8153

Email: publish@ai.org.za

Orders Worldwide excluding N. America

African Book Collective Ltd

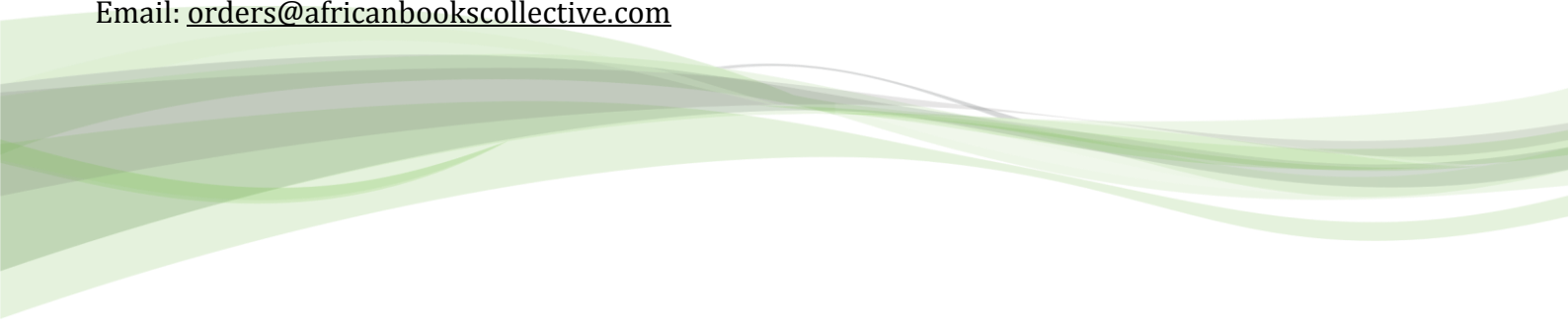
P.O. Box 721

Oxford OX1 9EN

UK

Tel/Fax: +44 (0) 1869 349110

Email: orders@africanbookscollective.com



Orders from within N. American (US and Canada)
Michigan State University Press
1405 South Harrison Road
25 Manly Miles Building
East Lansing
MI 48823-5202
USA
Tel: +1 517 335 9543
Fax: +1 517 432 2611
Email: msupress@msu.edu

